PMA 2 INGRESS

TOOLS AND EQUIPMENT REQUIRED

Unstow, place in tool bag:

APAS Hatch Tool (2)

Alcohol Pads (for APAS hatch seal)

Station Portable Fire Extinguisher (CO2 bottle)

D-Cell BATTs (16)

Air Sample Bottles (4)

Desiccant/Shroud Assemblies (4)

Spotlight

Towel

4-inch Ratchet Wrench, 1/4" Drive

TBD-inch extension. 1/4" Drive

1/4" to 3/8" Adapter, 1/4" Drive

7/16" Deepwell Socket, 1/4" Drive

5/32" Hex Head Driver, 1/4" Drive

Universal Joint, 3/8" Drive

4-inch Adjustable Wrench

General Purpose Tape (2")

Nylon Wire Tie Wraps

Tie Wrap Cutting Tool

Connector Pliers

Short Flat Tip Screw Driver

Velcro

Unstow:

Portable Fan Assemblies (4)

ISS O2 Extension Segments (2)

FGB Harmful Contaminants Filter Cartridge

Empty 'Return to Houston' Bag

SETUP QDMS FOR INGRESS CONTINGENCY SUPPORT

1. Retrieve ISS O2 Extension Segments (two).

Disconnect two QDMs from existing O2 lines.

Connect a QDM to one end of each of the ISS O2 Extension Segments.

C7 2. √LEH O2 SPLY 1,2 VIv (two) - Op

MO32M

LEH O2 7,8 Outlet (two) → Connect free end of one QDM/ISS O2

Extension Segment to each outlet

LEH O2 7,8 VIv (two) \rightarrow Op

3. Route both QDM/ISS O2 Extension Segments to Ext A/L.

SETUP EXTERNAL AIRLOCK FOR ODS AND PMA INGRESS

4. Relocate Tool Bag, shuttle/station Air Duct Assembly, PMA IMV Duct Extension, and Portable Fan Assemblies, 'Return to Houston' Bag to Ext A/L.

17 APR 98 3-99 ISS OPS/3A/PRE B

A6L (A7L) 5. cb Depress MN A(B) SYS 1(2) Vent \rightarrow Cl cb Depress ESS1BC(2CA) SYS 1(2) Vent ISOL \rightarrow Cl $\sqrt{\text{VEST DEP VLV SYS 1(2) VENT - Cl (tb-Cl)}}$

ISOL \rightarrow CI (tb-CI)

cb Depress MN A(B) SYS 1(2) Vent \rightarrow Op cd Depress ESS1BC(2CA) SYS 1(2) Vent ISOL \rightarrow Op

NOTE

Expect possible dP/dt klaxon if vestibule requires repressurization.

ODS Hatch 6. EQUAL VLV (one) \rightarrow Norm $\sqrt{\text{ODS Hatch } \Delta P} \leq 0.2 \text{ psid}$

INGRESS ODS VESTIBULE

Open ODS hatch per decal.
 EQUAL VLV (one) → Off Install cap.

CAUTION

Surfaces may be below freezing for a short time after initial ODS Hatch opening. Avoid direct contact with vestibule surfaces until SHUTTLE VESTIBULE TEMP 1,2 (two) indicate > 40 degF (SM 211 DM STATUS ODS INTERFACE).

Insert ODS air duct extension into vestibule.
Wipe any condensate from vestibule volume using the towel.

8. √**MCC-H** 'Go for PMA 2 Ingress'.

OPEN APAS HATCH

PMA 2 APAS Hatch 9. Select 'ĐÀÁÎ ×ÅÅ' (WORKING) torque setting on APAS Hatch Tool. Insert tool in hatch socket.

Rotate tool 3-4 turns in direction of 'Î ÒÊĐ' (Open) arrow until it clicks.

*	If tool prematurely slips or does not engage	*
*	Select 'ÀÂÀĐÅÉÉÍ Î Å' (EMERGENCY) setting on	*
*	hatch tool	*
*	Reattempt to open Hatch.	*
**	******************	**

Remove tool.

Open Hatch.

Tether tool on hatch handle.

Secure Hatch in open position using fixing device.

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EXT 10. Cut and remove tie-wrap holding air inlet flex duct to halo cross using Tie-A/L Wrap Cutting Tool.

Disconnect air inlet flex duct from halo cross air duct.

Obtain shuttle/station Air Duct Assembly stowed in PMA 2.

Remove handled clamp from shuttle/station Air Duct Assembly.

Install handled clamp over end of air inlet flex duct.

Insert male end of male/female duct adapter on shuttle/station Air Duct
 Assembly into end of air inlet flex duct.

Tighten clamp using handle until secure.

Secure assembly across the adapter using fabric straps/snaps. Secure shuttle/station Air Duct Assembly with TBD to TBD.

PMA 2 12. Remove band clamp and cap from PMA 2 hard duct.

Stow cap on side of hard duct with pre-positioned Velcro.

Connect free end of shuttle/station Air Duct Assembly to PMA 2 hard duct inlet with band clamp.

Secure band clamp with over-center latch.

- 13. Remove Velcro strap from PMA 2 hard duct grille assembly (near duct connection just made).
- 14. Verify grille cover open.

17 APR 98 3-101 ISS OPS/3A/PRE B

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